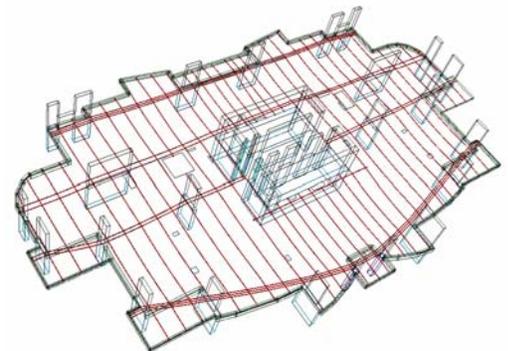


# ADAPT-Floor Pro® 2016

## Structural Concrete Design Suite

Three-dimensional (3D) Finite Element Software for Analysis and Design of Concrete and Post-Tensioned Slab and Foundation Systems, ADAPT-Floor Pro is built on ADAPT BIM Technology. This software provides a powerful yet easy to use tool for the analysis, design and investigation of all types of elevated concrete floor systems. ADAPT-Floor Pro's true 3D FEM analysis provides the industry's most accurate results even for the most complex transfer and waffle slabs. Users have complete control over the design and detailing of mild reinforcement, leading to optimized designs and investigations. Its BIM-based modeling approach supports a unique bi-directional integration with Revit® Structure. Used independently or together with ADAPT-Edge and MAT, Floor Pro gives users unparalleled modeling and design flexibility. With Edge, automatically apply transfer loads and moments from the multi-level building analysis.

### Key Features:



- Generates a true 3D solid model of an entire concrete building
- Imports various file and model formats
  - DWG/DXF files (import and export)
  - REVIT® Structure model (1:1 bi-directional integration)
  - ETABS model (geometry, lateral, and gravity loads and solution sets for application/combination with native loads)
- Uses Component Technology to assemble an entire building including elevated floors and foundation using structural components, such as slab regions, walls, beams, columns, drop caps and panels, openings, steps above/below the slab
- Automated tendon generation and optimization
- Temperature Loading and Shrinkage Strain
- Supports live load patterning and automatically reduced live loads, where applicable
- Performs a detailed finite element analysis of the entire floor systems and its supporting structure
- Calculate cracked section and long-term deflections and view extent of cracking in slab and beams
- Specify typical top and bottom reinforcement mesh and rebar
- Easily define support lines - even for complex geometries
- Automatically generates all critical design sections
- Column strip / middle strip option
- Performs code check and reports the location and amount of reinforcement needed
- Extensive graphical and tabular reports
- Edit graphical rebar layout report to optimize rebar layout
- Direct integration with Edge and MAT saves time, helps to improve accuracy, and ensures all building loads are accounted for in design
- Calculates and checks punching shear stresses, and designs shear stud or stirrup reinforcing
- Generates sections for easy verification of complex geometries

### Supported Design Codes:

- ACI-318 (1999, 2005, 2008, 2011, 2014)
- IBC (2006, 2009, 2012, 2015)
- British-BS8110 (1997)
- Canadian-A23.3 (1994 & 2004)
- Australian-AS3600 (2001)
- Brazilian-NBR6118 (2014)
- Indian IS456 (2005 reprint)
- European EC2 (2004)
- Hong Kong-CoP (2007)
- Chinese-GB50010 (2002)
- Singapore Annex to EC2

ADAPT-Builder® Design Suite Programs:



**ADAPT Corporation**  
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**ADAPT International**  
Kolkata, India

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